

MORPHEDS

THE MACH 4 DIFFERENCE GUIDE



WARRANTY (What to do if it doesn't work)

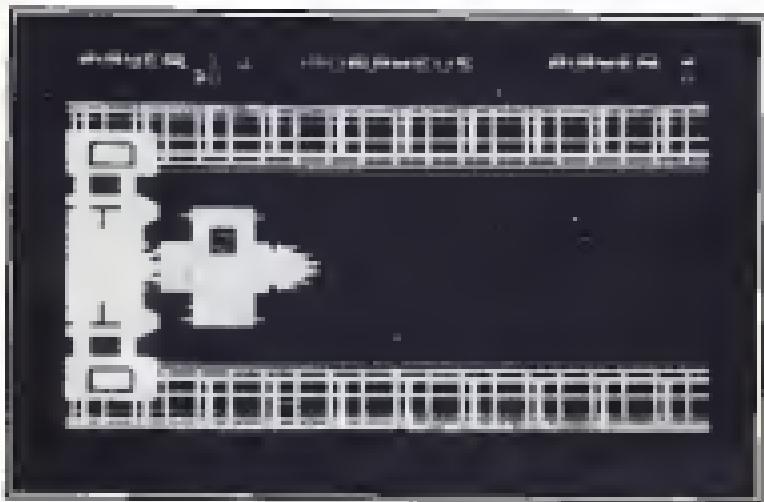
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Published February 1988
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Author's Introduction

The Morphus Project began on December 1986 and was finally completed on 2nd December 1987. Its development was chronicled in Zzap! 64 as a series of diaries. The game was designed as a more advanced type of arcade game, without the consequences of an actual coin-op which basically has the function of getting your money, giving you just enough enjoyment to get you interested, and then getting rid of you so that it can obtain some more money. Morphus is more of a long-term game. A game that you can return to more often. It was never intended to be a simple, fast action game.

It started with an ambition to produce a game system that could allow the building of huge spaceships that were functional, with plenty of options open to the player on how to design their ship. As you can see from the instructions, there is a lot of information associated with this, but it doesn't all need to be digested at once. Much of it is reference information which is not intended to be read from beginning to end. It's just for looking up points of interest as they crop up in the game.

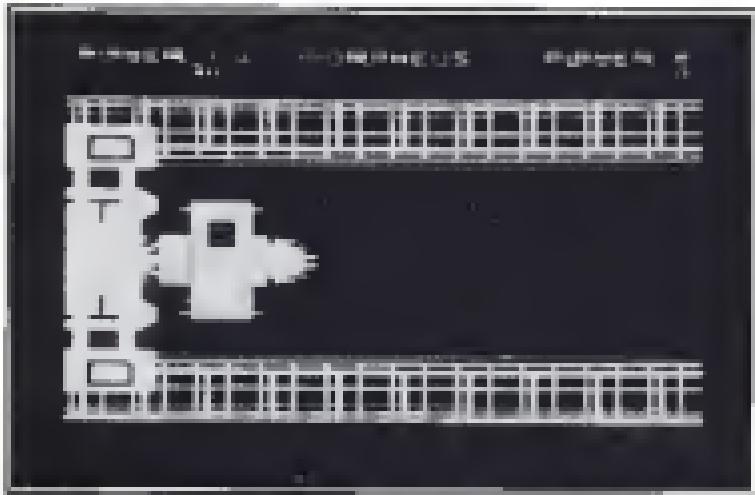
Another ambition was to design a system that could run different life forms that would behave as if they were alive, following behaviour patterns other than strictly choreographed dance steps. The Morphai as I have called them attempt to behave intelligently, they have no wish to be killed, and are not mindless mutants. They begin in a slightly sleepy state and are not a little clumsy at first, but they will quickly become agile, worthy opponents. They all show different personalities, some will attempt to escape, some show curiosity, some will even blatantly attack. They also react to their surroundings, they can be wounded by hitting the ship or by a close shot, and will behave quite differently depending on how hurt they are. They also learn, and so even though you may meet the same creature again later, it may well behave differently. Some even try to impersonate other elements in the game in order to escape detection! The names of many of the Morphai and indeed the generic term Morphai are all taken from early Greek Mythology. Morphus was the God of Dreams who would send spirit-like forms, called Morphai, into the minds of sleepers.

Although not as fast and immediate as many arcade games, Morphus is more than a five minute wonder. It will take many plays for you to see even a quarter of the things that it can do. Experiment with different tactics and ship configurations. I have found this game quite intimating at times, much more so than you immediately realise but it's a real feeling of relief to clear some of the later levels. Morphus will therefore tend to offer longer games than many but the total concentration required to play and plan ahead may make you want to do something more relaxing afterwards - like hang gliding or skydiving! However by the next day you'll be ready to face Morphus again for another battle. Now read the Gethsemani Guide, and Press F1 to Play!

A Quickstart Guide

This is just a quick guide to help you get into the game. It won't tell you how to win but it will allow you to see just a few of the things that *Morphous* has to offer and land you into the game without having to plough through all the instructions at once.

First things first, load up the game and watch the titles sequence, taking note of the nucleus and orbital graphics; if you watch the sequence more than once you will notice that there are two different appearances to the orbital and others.



Morphous is a joystick-only game. The keyboard is not used during the game. Press fire to play. The game will start in one player, one joystick, either port mode. You will see your shiny new ship in the middle left of the screen. Don't worry about the ship upgrade system as yet, you need to earn some money first by shooting a few things. Do as the bottom legend says, and press fire again. You will see a brief display of a circle of dots exploded from a central star, which is a map of the orbital's positions in the combat area, with the nucleus in the middle. It's not too important just yet. You will then see your ship leave the docking bay between rows of griders before they fade away as you deactivate (dorsal) into the combat area, otherwise referred to as the Abyss, or Universe.

Your ship has a rear engine section, or shield, and a forward plasma beam section with a connecting corridor of yellow lights. At launch time you are in the forward section as marked by the flashing blue area. You can steer the ship by accelerating it in any direction with the joystick. You can also fire the plasma beam by jolting the fire button, do not hold the fire button down just yet. If you just bring the ship to a halt for a few moments you will probably be met by round Morphai of some kind. They won't be too pleased to see you and may well start to slowly circle your ship. On early levels they will be fairly sleepy and move quite slowly. See if you can move the ship around a little and hit them with the plasma beam. Your energy level is shown by the speed of rotation of the display in the top half of your ship. It will slow down a little if you are hit by bullets or run into the Morphai. The display will flash red when it gets below 30% and your ship will be destroyed if it reaches zero.



It's time to stop playing sitting ducks and explore a little. Look at the blue radar display at the top of the screen. Your position is always at the centre of the cross-hairs. There should be a single dot to your right, marking the position of the nucleus. Start moving slowly towards it. Blundering around at full speed will only result in crashing into Morphai. Try to line up the dot in the middle of the radar and stop. Even if you can't see the nucleus, you can probably hear it. Just make fine adjustments to your position until the nucleus appears on the screen. Cute, isn't it? Oh, the bullets. Well, you there are one or two coming out of it. If you hang around long enough you'll see your ship destroyed.

The nucleus is the villain but it can't be destroyed by just wadding in with all guns blazing, but there is a way.

By this time you'll probably be starting again after getting too close to the nucleus. Don't despair, this time we're going to give it a taste of its own medicine. First we have to find an orbital. On level one they appear in a single ring around the nucleus, so heading in any direction away from the nucleus should bring you to one. Remember, don't drive around too fast as you don't want to have to script too many squashed Morphs off the windshield. They really are trying to get out of your way.



Try to stop the ship with an orbital in front of it. Use gentle taps of the joystick rather than holding it in a direction for too long. Now the fun begins, fire the plasma beam at the orbital. With practice this can be done on the move. One or more Morphs will exit rapidly from the orbital and what they do after that depends on what type they are. Some will attack, some will stop and wait, others will run away. Use the plasma beam to destroy them or hit the orbital again to produce more Morphs. The orbital will change as it is hit until it finally collapses into a neutron dwarf. No more Morphs will then be produced from it. On level one, only one orbital needs to be collapsed in this way. The rules will turn red as the other orbitals collapse by the will of the nucleus. You'll bear witness to that happens! On later levels you need to hit more orbitals to cause this



Once the right number of orbitals have been collected, the nucleus realises that it is heavier and destroys all the others. You then have about one minute to get back to the nucleus. It will release a few 'Bonus Morphar', spinning Morphex crystals. These may be destroyed by any means, but quickly otherwise they will self-destruct and you won't receive the 2000 bonus points.

All this activity will leave you running short of energy. Your energy is restored full after every completed level but what you really need is a way of keeping the energy level up. It's time to commission a system. To build a device that you can fit to the ship that will generate energy for you. Provided you have at least 5000 G (Guracel) in the coffers, displayed at the top of the screen while docked, you can buy an energy replenishing system, called IC4. You'll have to read up on part of the ship update function of commissioning a system. You need to select part IC4 in the Commission System facility while docked, play the game for about two minutes, then check up on it using the Install System facility. If the part is ready, install it on your ship. Part IC4 is an inertia converter, which means that it converts your movement into energy, so provided you are moving, your energy will be continually charged up.

If you also now read the 'Basic Control Modes' section you will find out how to dock back to base at any time to escape trouble or check on the progress of systems or weapons under construction. Later you will find the need for extra weapons, larger hulls

and other specialised systems that you can incorporate into your ship. I don't recommend just reading all the instructions at once, try playing the game a little and look things up as you need to know about them. The game begins fairly simply and introduces more control modes and things to deal with later. Remember that this is not a five-minute fast arcade shoot-em-up, a good understanding of the space combat challenges is essential to make real progress, along with developing a strategy to deal with the various Morphids that you will encounter.

Loading the Game

Tape

Remove any cartridges from your C64 or C128. Put your C128 into C64 mode if appropriate. Plug your joystick(s) in. A single joystick may go in either port. Ensure that the shift lock key is not depressed, and press shift and run/stop together. Insert the reward tape into your cassette player and press Play. The game will turbo load in about three minutes. The loading screen will appear after about one minute and drop a total of six orbits down each side of the screen. The screen will then go black for about ten seconds before Morphus begins. A blank red screen indicates a tape loading error, please retry. You retain control of the cassette deck while the game is playing so that you may record and remove the cassette.

Disk

Remove any cartridges from your C64 or C128. Put your C128 into C64 mode if appropriate. Plug your joystick(s) in. A single joystick may go in either port. Put the Morphus master Disk in your drive and type:

LOAD "M&A.D"

Now press **RETURN**. Do not remove the master disk once the game has loaded as Morphus will save your high scores to this Disk, see below.

High Score Save to Disk

The Disk edition of Morphus is able to preserve an All-time Heroes, (and Heroines but the character set is too big to print it on one line, sorry!), Top Ten on the Morphus master Disk. This table is loaded in as the game is initially loaded. In order to keep this table up to date, the Morphus master Disk should be left in the drive. Any new entry into the All-time Top Ten will result in the table being updated on the Disk. If you do not wish the table to be updated then you may remove the Disk once the game has loaded. Note:

that the game will still attempt to update the table, resulting in the drive L: R:D flashing. Do NOT put any other data on the drive while playing *Morpheus*. It may be overwritten irreversibly.

Saving Your Position

Whatever you manage to attain a high score and provided you reach level eight or above, *Morpheus* will remember the highest level that you have reached. If you start a new game of *Morpheus*, you will be allowed to start from any level from one up to the highest level that you had previously reached. You can alter this level by moving up or left to decrease level and down or right to increase level.

Selecting level one will start a normal game but you will begin with any funds amassed from a previous game. If you start on any other levels, then *Morpheus* will credit you with a generous amount of points for the particular level that you are starting on. If you are skilled enough to reach beyond level forty then *Morpheus* will not allow you to restart at any level above forty.

Unfortunately, *Morpheus* can only remember your highest attained level while the computer is on. Only disk users can save their level to disk and this is automatically done whenever the high score table is saved.

Overall Objective

To build and maintain a ship capable of reaching and destroying *Morpheus* on the final level. level fifty. Points scored are converted to money (Onduras) with which to buy larger, better ships, extra onboard systems and better weapons.

The Scenario

The *Aether* or *Onuras* was created by The Intelligence from nothing by creating two equal and opposite areas of space. These phases are joined only by the central nucleus which maintains the *Aether* by ferrying charge from the negative phase through to the positive phase. It then distributes this charge around a number of charge orbits which stabilises the *Aether*.

The Intelligence is growing stronger and is able to create larger and larger *Aethers* each time. It is learning how to protect the *Aether* by creating Roaming *Morphas*. The *Morphas* generated by charge disturbances also learn quickly how to defend themselves. Soon the *Aethers* may grow so large that they will expand infinitely. The Intelligence must not be allowed to achieve this.

A commercial operation has been set up to destroy each *Aether* in turn by sending a ship into one or other of the two phases with a vice to collapsing enough charge orbits that the nucleus cannot maintain the balance of the *Aether*. The nucleus itself is so active that it cannot be approached while it is controlling the *Aether* without serious damage. Teams of researchers are constantly working on systems and weapons to ensure the success of the mission. As the *Morphas* become immune to older weapons, new ones must be developed. As systems become unable to cope with the demands of ships under heavy attack, new ones must be designed. Being a commercial operation, the High Supervisor will only reward results as your funds allocation is directly indexed to your performance. A limited timescale has also been imposed by the High Supervisor: the task of destroying the *Elith* *Aether* must be completed by Timelock fifty or all research into new weapons and systems will cease.

Basic Control Modes

This is an area which begins quite simply and gets more complex as the game goes on. Each hull for ship has at least two control stations and linking corridors between them. Your position within the ship is shown glowing blue and you may only move within the ship along the 18 corridors.

Each station on the ship has its own major function, which may be firing a weapon or demanning back to base, and must allow movement of the ship as well. In addition it is also possible to leave the station, travel along the corridors and enter another station at any time. The first, smallest hull is the simplest. It has a rear engine station and a forward weapon station with a single straight corridor between them.

Forward Weapon Station

The ship may be steered in any direction by accelerating the ship in the direction of the joystick. The main plasma beam can be fired by pushing the fire button. The button should not be held down. The ship may be steered while firing. To leave the forward station, press and hold fire, then move the joystick in the direction of the exit corridor i.e. to the left. In order not to accelerate the ship to the left while doing this, ensure that the fire button is held down with the joystick initially centred. Then after about half a second move the joystick to the left, keeping the button pressed until you actually leave the station. This sounds more complex than it is, just practice it a few times and it becomes second nature. After launching you begin in the forward weapon station so you will seldom need to leave it with the smallest hull.

Rear Engine Station

The ship may be steered in any direction by accelerating the ship in the direction of the joystick. Press and hold fire with the joystick centred to demand back to base. The button must be held down for nearly one second. To leave the station, press and hold fire with the joystick pointing in the direction of the exit corridor, i.e. to the right.

Between Stations

Hold the joystick in the direction you wish to move along the corridors. If you move into a station at the end of a corridor you will automatically be locked into it until you wish to leave, always by holding down fire and then pointing the joystick in the direction of the exit corridor. Note that the ship cannot be steered from the corridors.

Sequence of play

Before visiting each of the fifty combat areas of Morphus it is possible to access the ship upgrade system. Once you have completed all the transmissions that you wish to perform it is time for battle. Press fire at option one: Deploy ship. You will see a map of the charge orbitals expanding from the nucleus in the centre. Any already collapsed orbitals from a previous visit will not be shown. On initial entry to an area all orbitals will be active. You will see your ship leave the docking bay and accelerate out of the station before dematerialising close to the nucleus. You can dematerialise back to base at any time to check whether recently constructed systems and weapons have been built or to switch phase, but remember that the shield matrix is switched off for dematerialising so you must allow a short time for the shields to be raised to full strength on returning to the combat area.

To destroy the nucleus you must collapse some of the orbitals around it. On level one it is only necessary to collapse one orbital. Level two requires that two orbitals collapse, and so on up to a maximum of ten orbitals. Orbitals are collapsed by destroying the positive phase ones of charge or overloading the negative ones. The procedure is the same for each, fire the forward plasma beam at the orbital. When the required number of orbitals have been destroyed the nucleus will shut down the remaining orbitals and has only a brief time to live. You have about one minute to locate the nucleus before it dies, firing its life-giving 'Borne Morphus' which may be destroyed by any means for extra points. The empty nucleus shell finally collapses itself and you are automatically dematerialised back to base. If you dematerialise back to base yourself after the system has died in order to save themselves you can proceed to the next level without trying to gain bonus points.

The Charge Cycle

The combat area, or Aether, is split into two halves, the positive phase and the negative phase. You can only visit one at a time, which one depends upon the amount of positive charge currently on board your ship. These two phases mirror each other with the nucleus being the gateway between them. The central nucleus is surrounded by over thirty charge orbitals which emerged from it when the Aether was created. The orbitals begin in a half-charged state. They decay slowly in the Aether and as they do so they emit a beacon which lasts just long enough to signal the current state of decay to the intelligence within the nucleus. The beacon then dissolves.



The nucleus contains a supply of charge with which it can recharge the orbitals. It also controls two servants, the charge rejections, which can carry charge from the nucleus to each of the orbitals in turn. They are periodically dispatched to an orbital and on arriving they deposit the charge that they are carrying into the orbital, replenishing it. Sometimes, rejections cannot resupply orbitals quickly enough and as the orbitals decay from 'charge starvation' and hence the nucleus automatically collapses the orbitals and shuts itself down. The converse of this, is that rejections can become 'too efficient' thus overcharging the orbitals and the nucleus will shut itself down once more. An orbital and its mirror-image in the opposite phase can be collapsed and destroyed by either depleting it of charge or by overloading it. However the disturbance caused by the sudden change in its charge results in the production of Morphi, the semi-intelligent inhabitants of the Aether.

Ship Upgrade Facility

While in dock, prior to visiting the combat area, the current hull with all added systems and weapons is shown along with the legends:

1. 'Deploy Ship' and 'Press fire to play'.

To enter the combat area just press the fire button. This is just one of eight options possible at this stage. To access one of the other options, move the joystick down (or up) and flip through the list. Repeated moves of the joystick are necessary to do this. The other options are:

2. Replace Hull
3. Combination Systems
4. Install Systems
5. Scrap System
6. Combination Weapon
7. Install Weapon
8. Scrap Weapon

As each option appears, a brief summary of that option's function is displayed. This may be just a reminder of that option's function or information as to what is available should that option be selected. To select an option for more detail move the joystick right (or left). Options two to eight contain lists of items. Each list may have one or more entries, or none at all. To flip through the entries in a list, move the joystick right (or left). To return to the menu list without selecting or changing anything, move the joystick up or down. To enter the combat area, keep moving the joystick up (or down) until entry 'Deploy ship' is shown, then press fire.

In summary, pressing fire is always a positive action to play or select an item. Joystick down (or up) flips between options or quits from an option. and joystick right (or left) flips between items in an option.

Update Ship Options

1. Deploy Ship

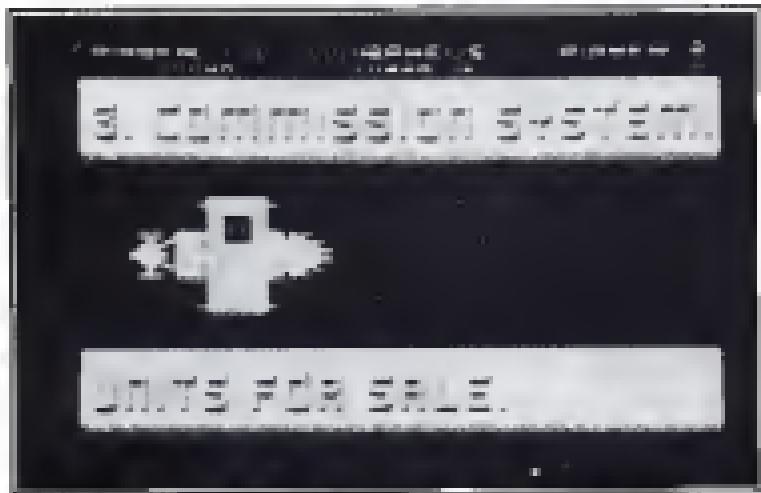
There are no sub-items in this option, so joystick left or right has no effect. This is the option to launch the ship into the combat area, press fire to play.

2. Replace Hull



As more systems and weapons are required for survival, it is necessary to purchase a larger hull to accommodate them. Use joystick right (or left) to peruse the available hulls. Their cost is shown in the bottom legend along with their I.D. code. Press fire if you wish to purchase the hull shown, or use joystick up or down to return to the menu without selecting a new hull. If you attempt to purchase a hull while not having enough cash to do so, credit will not be granted. This is strictly a cash-on-delivery transaction. Any systems and weapons on your old hull will be automatically placed in your order books.

3. Commission System



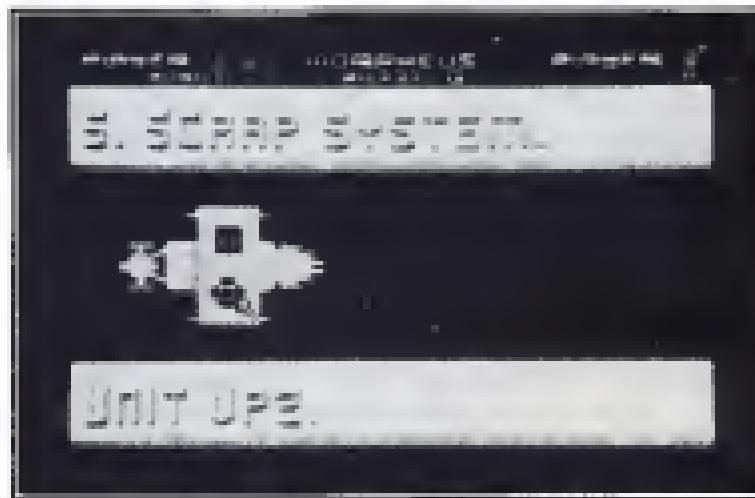
To purchase a new system, it is necessary to access the system catalogue. Up to ten different items may be available for purchase at any one time. Systems in the catalogue are identified by a two-digit ID code indicating their type, followed by a unique catalogue entry number 1-36. The first entry that can be viewed corresponds to the current timeline as in timeline one, entries 1-10 are available in timeline three, entries 11-20 may be ordered earlier systems have become obsolete and are no longer available, usually having been replaced by better later ones. Entries beyond the last viewable have yet to be invented.

To see the currently available systems, use joystick right (or left). To buy a particular system, dip through the entries until the required one is shown in the display box to the right of the ship, then press the fire button. Assuming that the cost can be met, the part will be built. It will appear new in the Install System list as 'Under Construction'. The system will take a while to build and cannot be installed on your ship until it is ready. To return to the menu without buying a system, use joystick up or down. Most possible error messages are self-explanatory. One limitation is that only twenty systems can be in the order book (the Install System list) either under construction or ready. Should the message 'Order Book is Full' be displayed when you try to buy a system you must install at least one of the queued systems using option 4, then construction the required part again.

4. Install System

Systems newly constructed move into the order book and may be viewed here. A brief summary appears in the bottom legend as this option is selected to tell you whether any systems are ready to be installed. To view systems in the order book, use joystick right (or left). A system ready for installation will display its ID code, otherwise it will show 'under construction' and will take a while to build. To install a system that is ready, press fire. It will be placed in the first available free slot from the back of the current ship. Naturally there must be an empty slot in which to install it. To return to the menu without installing a system, use joystick up or down. The 20 entry limitation discussed in the 'Commission System' option still applies as any systems transferred from an old hull into a full order book will be lost.

5. Scrap System



As new, better systems become available through time it will sometimes be necessary to remove old systems from the hull. Also, spent batteries or shield generators may need to be replaced, or systems removed to make way for a specialized system. To start this facility use joystick right (or left). Provided there is at least one scrapable system on the hull, an arrow will appear pointing to the first system. Use joystick right (or left) to move the arrow through the systems until it points to the one that you wish to scrap. Note that the system's ID code appears in the bottom legend to aid selecting the correct one. This facility can then be used to review the current systems on board. To scrap the system

currently being pointed to, press the fire button. Any system except the energy display may be scrapped. The arrow will never point to this. To return to the menu without scrapping a system, use joystick up or down.

6. Commission Weapons



To purchase a new weapon, it is necessary to access the weapons catalogue. Up to ten different items may be available for purchase at any one time. Weapons in the catalogue are identified by a two-letter ID code indicating their type, followed by a unique catalogue entry number 1-60. The first entry that can be viewed corresponds to the current timeline; so in timeline one, entries 1-10 are available; in timeline fifteen, entries 15-24 may be ordered. Earlier weapons have become obsolete and are no longer available, usually having been replaced by better later ones. Entries beyond the last viewable have yet to be invented!

To see the currently available weapons, use joystick right (or left). To buy a particular weapon, flip through the entries until the required one is shown in the display box to the right of the ship, then press the fire button. Assuming that the cost can be met, the part will be built; it will appear now in the *Install Weapons* list as *Under Construction*. The weapon will take a while to build and cannot be installed on your ship until it is ready. As time goes by, the Morphaid develops an immunity to older weapons, you are therefore recommended to purchase the latest weapons that you can, i.e. the highest

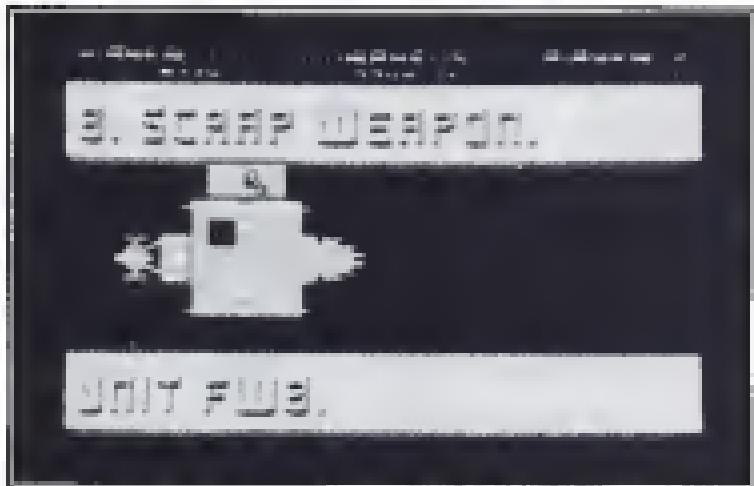
catalogue entries possible, in order that they have maximum effect on the *Morpheus*. Using weapons that they are fairly immune to will only annoy them!

To return to the menu without buying a weapon, use joystick up or down. Most possible error messages are self-explanatory. One limitation is that only twenty weapons can be in the order book (the *Install Weapon* list) either under construction or ready. Should the message 'Order Book is Full' be displayed when you try to buy a weapon you must install at least one of the queued weapons using option 4, then commission the required part again.

7. Install Weapon

Weapons newly commissioned move into the order book and may be viewed here. A brief summary appears in the bottom legend as this option is selected to tell you whether any weapons are ready to be installed. To view weapons in the order book, use joystick right for left. A weapon ready for installation will display its ID code, otherwise it will show 'under construction' and will take a while to build. To install a weapon that is ready, press fire. It will be placed in the first available free slot from the back of the current ship. Naturally there must be an empty slot in which to install it. To return to the menu without installing a weapon, use joystick up or down. The 20-entry limitation discussed in the 'Commission Weapon' option still applies as any weapons transferred from an old list into a full order book will be lost.

8. Scrap Weapons



As new, better weapons become available, and as the Morphed becomes immune to your older weapons, it will be necessary to remove the old weapons from the hull to make way for new ones. To enter this facility use joystick right (or left). Provided there is at least one weapon on the hull, an arrow will appear pointing to the first weapon. Use joystick right (or left) to move the arrow through the weapons until it points to the one that you wish to scrap. Note that the weapon's ID code appears in the bottom legend to aid selecting the correct one. This facility can thus be used to review the current weapons listed. To scrap the weapon currently being pointed to, press the fire button. To return to the menu without scrapping a weapon, use joystick up or down.

Note

Additional weapons can only be added onto larger ships. Hulls NLS to NL4 have extra perpendicular corridors to allow access to these weapons.

The Importance of Timeslices

Timeslices are a measure of time spent actually in the Aether or Universe. One timeslice is equivalent to about two minutes of play. The weapons and systems catalogues show the ten current units available for purchase starting with the entry equivalent to the current timeslice. After timeslice fifty no more entries are added to the catalogues so at timeslice sixty there will be no entries available for purchase at all. It is thus imperative that Morphus is beaten before you run out of new weapons and systems. Your old weapons will become obsolete and no more systems can be replaced once your order book is fulfilled.

The Morphai

Morphai are the inhabitants of the Aether, or Universe. They may be attacked with the plasma beam, additional weapons, or disruptors. They can be hurt or killed by these weapons, depending on how much immunity they have built up. Collisions with the ship may also injure or kill them. Collisions with charged objects, i.e. the nucleus or orbital clusters damage only to the ship as it is forcibly repelled by the charge contained within them.

The nucleus - the centre of the Aether, gateway between the two phases and controller of all that you see. Impervious to attack. Its 'heartbeat' is audible and gets faster the closer you are to it.

Charge emitted - maintains stability within the Aether, holds charge impervious to all but plasma beam attack.

Rejuvenator - carries charge from nucleus to orbital to replace charge lost through natural decay. The carried charge is protected by an energy field which renders the rejuvenator invulnerable.

Beacons - emission from orbital as it decays signalling to the nucleus that charge is being lost, (or gained in the negative phase). The beacon itself dissolves after its message is sent. The intelligence knows that an orbital has been destroyed by the absence of beacon messages.

Neutral Phase - result of destroying a charge orbital. The orbital collapses in on itself and shatters briefly. They exist no longer and are otherwise inert.

Bonus Morphai - held within the nucleus, these are freed as the nucleus dies after all of the orbitals have collapsed. Worth extra bonus points.

Morphus - God of Dreams - the ultimate loc.

Thebeter - brother of Morphus

Unique - they're everywhere.

Phantasm - brother of Morphus

Uridilus - home sweet home.

Hypnos	- God of Sleep, father of Morpheus
Chronos	- darkness son of Chaos
Geigia	- darkness and fog
Hecate	- the Goddess of Night
Minos	- fire
Hades	- executioner of the will of the Fates.
Bia	- violence
Cratus	- a sharp and jagged rock
Thanatos	- death
Tyche	- bestower of fortune indiscriminately

The Morphel awaken slowly from their long sleep, at first unsure of their reason for being. Initially slaughtered, the survivors of each strain of Morphel grow and learn, returning to destroy those who killed their forefathers. They become faster, more agile, learn how to flee, learn how to survive, and learn how to kill.

Score Table

Points scored for Morphel kills are variable and depend upon the degree of difficulty, e.g. a defenceless rock scores 10 points, but an enraged Morpheus scores 250 points. Discharging or overloading an orbital scores double only in destroying the Bonus Morphus released by the nucleus once the Aether begins to collapse.

Morphel	10-300 points
Orbital	300 points
Bonus Morphel	2000 points

Replacement Hulls

The four types of hull are available at all times. For convenience however it is assumed that a replacement hull of the same type as that to use is not required and so is removed from the catalogue. Manned combat to base is initiated from the rear section of all hulls, and the charge extraction/deposit plasma beam is fired from the forward section. Damaged systems are removed and the hull repaired en route to base. When a new hull is selected it is supplied with full main energy banks and all systems and weapons that were fitted to the old hull are returned to the order bank ready for installation on the new hull. The four possible hulls vary in capability and are detailed in the following section.

LIGHT HULL

ID. Code: HLL1

Initial Cost: 10000 G

Classification: Replacement Hull

Fleet Systems: 1 - Energy Display

Empty System Slots: 1

Fleet Weapons: Charge Extraction/Deposit

Plasma Beam: 40% efficiency

Empty weapon slots: none

Shield Matrix Output: 15 Powership

The smallest of the hulls, this has no room for extra weapon pod expansion and only one slot for system expansion, which is usually an energy recharging device.

MEDIUM HULL

ID. Code: HLL2

Initial Cost: 25000 G

Classification: Replacement Hull

Fleet Systems: 1 - Energy Display

Empty System Slots: 3

Fleet Weapons: Charge Extraction/Deposit

Plasma Beam: 60% efficiency

Empty weapon slots: 3

Shield Matrix Output: 30 Powership

The first hull to offer the possibility of extra weapon pods, this hull is the natural choice for a first upgrade. The three empty system slots can be configured in a number of ways, allowing at least minor customisation. This is the first really viable opportunity to install shields on a hull.

HEAVY HULL

I.D. Code: HLS
 Initial Cost: 750000 G
 Classification: Replacement; Hull
 Fixed Systems: 1 - Energy Display
 Empty System Slots: 5
 Fixed Weapon: Charge Extraction/Deposit
 Plasma Beam, 80% efficiency
 Empty weapon slots: 2
 Shield Matrix Output: 50 Powerups

A reasonable balance between system flexibility and firepower is offered by this hull. The increased shield matrix supported by two shield generators and one shield replicator keeps the ship fairly well protected and still leaves two free system slots for energy acquisition and maybe a more specialised system. Additionally two weapon pads may be incorporated for extra firepower.

DELUXE HULL

I.D. Code: DLA
 Initial Cost: 1500000 G
 Classification: Replacement; Hull
 Fixed Systems: 1 - Energy Display
 Empty System Slots: 7
 Fixed Weapon: Charge Extraction/Deposit
 Plasma Beam, 100% efficiency
 Empty weapon slots: 4
 Shield Matrix Output: 60 Powerups

The largest available hull offering maximum system configuration possibilities. The increased hull size has allowed the fitting of extra shield matrix units for a very high protective force field. The plasma beam has also been perfected and offers 100% efficiency. The fitting of extra weapon pads is recommended for extra protection should the shields ever collapse to help prevent damage to the vulnerable systems on board.

Systems

Systems are available through the process of commissioning a hull by paying the asking price and installing that unit into the current ship once it has been built. Systems are all referenced by a two-character I.D. code indicating their nature of operation followed by a one or two digit catalogue entry number.

See system reference card for pictures

Initial Hull-Mounted Systems

The systems that come readily attached to each hull are listed in the following section.

Main Energy Bank

ID Code: ES

Status Display

First catalogue entry: supplied with hull

Initial cost: free

Classification: Combat Aid

The main energy banks are the most important item on the ship. The energy they contain is used to run many onboard systems, all the weapons, and ultimately keep the ship alive. If the energy banks are drained completely the ship can no longer exist in the Aether and will "wink out". Stress hits on an unshielded ship by projectiles or Uchrons will cause energy to be lost; it is imperative that a close watch be kept on the energy level. The energy level is shown by the speed of the two rotating elements; the higher the level, the faster they move. In addition, the display will flash red with an accompanying warning noise should the level drop below 25%.

See system reference card for pictures

Medium Range Radar

ID Code: MR

First catalogue entry: supplied with hull

Initial cost: free

Classification: Combat Aid

To add charge orbital location a medium range radar is supplied with each each hull. It shows only charged objects, namely artifacts and the nucleus. Provided that at least one charge orbital exists somewhere (not necessarily in radar display range) the radar will appear blue. As the Aether collapses and the artifacts are ordered to self-destruct by the nucleus then the radar will only show the nucleus, and will change to a brighter red display to indicate this. Diagonal cross-hairs show the centre of the radar and thus any radar-trace at the centre should be in view or very close to the ship. The radar has a high-resolution slow-update display as the radar takes time to track each charge orbital. For best results it is recommended to stop the ship and wait for about one second to obtain a static radar display.

Systems Reference Guide

The different systems available to purchase are listed in the following section.

Solar Cells

ID: Code: SC
First catalogue entry: 30
Initial cost: 5000 £
Classification: Energy Replenisher

Development of the solar cell began in timeslice five as the need for a constant energy supply became clear. The research was carried out by the Pearce Barratt Conglomerate (PBC) which had a prototype running as early as timeslice seven. Using a vast bank of photon coupling devices a steady, albeit small flow of energy is produced. Early units took virtually a whole timeslice to construct and deliver and were not particularly efficient, producing far less energy than inertia conversion of equivalent times. Their advantage is, of course, that the flow of energy is constant. Production of these devices ceased when the much more efficient Anderson Mega-Cells took over the market at around timeslice forty.

Energy Batteries

ID: Code: EA
First catalogue entry: 1
Initial cost: 5000 £
Classification: Energy Storage

Auxiliary energy supply had long been a requirement of commercial freighters and the energy battery was the first Space product of the Pearce Barratt Conglomerate. The accompanying integrated controller draws energy from the main energy banks into a partially full battery provided the main banks are at least half full. Should the main banks run lower than 50% the battery will begin to drain at a steady rate.

Early batteries had a capacity of just under half the maximum carried on a commercial haul. They may be used in multiples or in conjunction with other energy storage and replenishing devices. Batteries are all supplied in a fully-charged state. Their advantage over energy replenishing devices is that they are fairly simple and thus much quicker to build. Production of these devices ceased shortly after the introduction of another Anderson product, the high capacity battery.

High Energy Batteries

ID: Code: HB
First catalogue entry: 20
Initial cost: 7500 £
Classification: Energy Storage

The High Energy battery was developed after calls for greater quantities of backup energy. Early standard batteries were unable to hold large enough quantities to justify carrying them at all. Many ships were destroyed through reliance on energy replacers alone. The initial production batteries were costly but could hold about 75% of the capacity of a main energy bank. Towards the end of their development they could hold a full energy bank. The energy flow rate of these batteries is considerably higher than standard batteries although they function in a similar manner.

Remote Drone Locator I.D. Code: DL
 First catalogue entry: 9
 Initial cost: 30000 G
 Classification: Combat Aid

Almost immediately after remote driven R.D. code 8000 came into operation it was clear that a high loss rate was occurring due to their relatively short range of control. This sonar-released device was produced to give the user some audio indication of the drone's distance from its landing and control pad should it lose visual range. The sonar 'bounces' off the drone and the delay between the original signal and the returning echo gives an indication of the distance. Drone locators remained in production most of the time, getting cheaper and faster to build.

Electronic Counter Measure system (ECM) I.D. Code: EC
 First catalogue entry: 14
 Initial cost: 100000 G
 Classification: Combat Aid

'Unkinness' have become a bane, first appearing in *Alther Nine* fitted with a homing device. A few seconds after launch, they scan the area for alien matter and lock onto it. Once locked they pursue their target relentlessly. The ECM unit attempts to confuse this lock-on of mines by emitting constant electro-magnetic signals, producing false 'ghost' images. If successful the mine will follow a random pattern. Early units proved about 35% successful on their own but may be combined for more effective results. The ECM unit is imported and so only takes a short time to assemble from its modular components before it is ready for fitting. The unit is nearly always available although supply can be a little erratic at times. The transport duties on this unit make it somewhat expensive for what it is.

Charge to Energy Converter I.D. Code: CE
 First catalogue entry: 49
 Initial cost: 200000 G
 Classification: Energy Replenisher

Almost too-late a better understanding of charge allowed the production of this charge-to-energy converter. Its benefits are two-fold:

- 1) charge carried is absorbed allowing more to be extracted.
- 2) energy is supplied at a high rate equivalent to that of an Anderson Mega-Cell at first, later versions surpassed 2.

The zener-diode of the negative phase actually assists the production of charge AND the generation of energy so the unit functions equally well in either phase. The one disadvantage of this device is that it does require some charge in order to function.

Mega Solar Cell

ID. Code: MG

First catalogue entry: 43

Initial cost: 7500 £

Classification: Energy Replicator

Produced as the need for faster energy recovery grew, the Anderson Mega-Cell, as it is commonly known, doubled the rate of photon-energy conversion. The device quickly became popular and ultimately caused the demise of the PBC solar cell. The main improvements made to the device were in speeding up its production time rather than improving its performance greatly.

Emergency Demolit Unit

ID. Code: ED

First catalogue entry: 8

Initial cost: 10000 £

Classification: Combat Aid

This device acts as a safety valve and cuts in automatically if the main energy bank falls below a preset level, usually around 20%. In this event, the demit unit is automatically activated causing an immediate return to base. Additionally the unit supplies a brief surge of energy to the main banks to ensure that it can handle any immediate power requirements. This instant surge is however sufficient to ensure the total burn-out of the device. This makes it a once-off system. In the event of multiple ED units being fitted, a crisis situation should only cause one unit to kick in. The power surge being immediate will prevent subsequent units from detecting New energy.

Charge Display Unit

ID. Code: CD

First catalogue entry: 3

Initial cost: 2500 £

Classification: Combat Aid

The current charge being held in the ship's charge banks can be seen by fitting one of these handy devices. The amount carried is proportional to the brightness of the display, and is also colour-coded (see the section on 'Brightness Coding' for more details). If the

charge bank is less than half full at deployment time, the ship will default into the positive phase to collect more charge. More than half full will cause entry to the negative phase to discharge it. This display unit is useful during combat for selecting the best time to deploy back in order to switch phase.

Shield Generator

I.D. Code: SG

First catalogue entry: 7

Initial cost: 4000 G

Classification: Defence System

Shield generators are the first line of defence for any ship under attack. A defensive shield can be projected around the ship by its rebuilt shield matrix provided it is fed by one or more shield generators. The strength and size of this matrix depends upon the hull size. Shield power is drawn from all shield generators on board, which behave as batteries. An individual shield generator's strength is indicated by its colour, again using 'Brightness Coding'. Early shield generators have a relatively low capacity and so will never show fully bright. Once completely used a shield generator becomes useless unless a shield replasterer is fitted, otherwise it must be replaced. New shields are installed fully charged. Note that the shield matrix is discharged during combat, so on arriving at the combat area the generators will begin to build up the matrix at the cost of some of each generator's power. This build-up could take a few seconds. The shield power lost during discharge of the matrix is not recoverable. Shield generators may be grouped up for faster shield matrix recovery in the event of attack.

Shield Replasterer

I.D. Code: SR

First catalogue entry: 10

Initial cost: 10000 G

Classification: Defence System

The long-waited energy to shield power converter. Provided the main energy banks are at least half full the replasterer will draw energy and produce shield power, which will be fed to any available shield generators requiring power. One replasterer can supply one generator at a time, but can recharge two generators simultaneously. The replasterer shuts itself down automatically once all shield generators are fully charged. The replasterer is a necessary complement to a ship fitted with shield generators although early units caused quite a heavy drain on the main energy banks. Laser models are considerably more efficient.

Stardust Finder

I.D. Code: NF

First catalogue entry: 8

Initial cost: 1000 G

Classification: Navigation Aid

Collecting a good harvest of *Bones Morphol* requires fast and accurate location of the fractures once the *Ailith* begins to collapse. This simple device is an eight-directional indicator enabling easy navigation to the nucleus. These devices are available at almost any time. The direction to the nucleus is indicated by the flashing element of the display.

View Port

ID: Code: VP

First catalogue entry: 2

Initial cost: 300 G

Classification: Rehabilitation

A once-in-a-lifetime never-to-be-repeated offer of this modern sleek observation port. Improve your ship now. Be the envy of all your friends. Last few days, only limited stocks remain. You won't be disappointed. So read the sales brochure in the final days of the House Of Glass double glazing sale. This is a simple observation port to seat up to twenty people. It allows all-round vision for astronomical or sight-seeing purposes. It serves very little purpose in a combat situation, and as soon as this was realized, production ceased.

Inertia Converter

ID: Code: IC

First catalogue entry: 4

Initial cost: 5000 G

Classification: Energy Replenisher

One of the earliest developments into the generation of useable energy was the Conversion of Inertia Project. The inertia produced by a large hull moving at high speed is so high that the requirements of this device cause virtually no drop in performance of the ship. Early units did not have a particularly fast rate of energy production but later ones were more efficient than the first solar cells, which eventually caused the demise of the inertia converter. Note that for the inertia converter to work properly it is necessary for the ship to be moving at a minimum of 50% speed.

Shield Display Indicator

ID: Code: SD

First catalogue entry: 10

Initial cost: 1000 G

Classification: Combat Aid

This device gives a 'brightness-coded' display of the overall strength of the ship's shield matrix. All the shield generators fitted to the ship that have power feed it into the primary shield matrix which actually creates the protective force field. The status of the matrix is displayed by this unit. The matrix is activated after descent onto the combat area and will begin to draw power from all shield generators on board. It takes a few seconds to reach full strength. This is shown by the indicator going through its brightness sequence.

until it reaches the matrix maximum, target hits have a greater shield potential. Any hit to the shield usually causes the destruction of whatever hit them, and also causes a drop in the matrix output, which is recovered by taking further power from the shield generators. These behave like batteries and will be discharged eventually. They display black when they get very low on power. Shield generators can only be recovered by firing at least one shield recharger, which converts energy from the main banks. See system reference card for pictures.

Charge Proximity Indicator

UD. Code CP

First catalogue entry: 6

Initial cost: 3000 G

Classification Navigation Aid

The charge proximity detector picks up the interference waveform present at all concentrated areas of charge, namely the nucleus and the charge orbits. It can detect positive or negative charge activity. The indicator layer on the device will glow if charge is detected close by. The use of this unit is limited as its function is largely duplicated by the medium-range radar supplied with all ships, although the C.P.I. reacts much faster.

Brightness Coding

UD codes: SC, SD and CH

The following onboard systems use a colour-coded display as their output:

Shield Generators (SG)

Shield Display Indicator (SDI)

Overall charge carried Indicator (OCH)

Their output is a colour in a series of colours which have been arranged in order of brightness to ensure that they can be read in a monochrome situation. The colours displayed are listed here:

Status	Colour	Brightness
100%	White	Brightest
	Yellow	
	Cyan	
	Green	
50%	Purple	
	Red	
	Blue	
	Black	Darkest
0%		

Weapons

Additional weapons are available to be compartmentalised for future installation on all hulls except HLL, which is too small to accommodate them. Weapons come in three basic classes:

- 1) fixed position weapons.
- 2) remote control drones.
- 3) disruptors.

Note that with fixed position weapons, you will only see a small jet of flame burst out of the gun barrel fire. A bullet will still fly across the screen (and burn anything in its path) but it travels so fast that it cannot be seen. The three weapon classes will now be explained in detail.

Directable-fire Weapons Stations

ID codes: FW, EW and EF.

These weapons are directable weapons, i.e. the direction of fire is controlled by the joystick direction at the time of firing. The ship may be steered to any direction by accelerating the ship in the direction of the joystick. The weapon may be fired by jabbing the fire button. It will fire in the direction of the joystick, unless it is centred, in which case it will fire in the same direction as it previously fired, initially set to forwards. The four-way gun cannot fire diagonally but will fire in a 'best-guess' direction if diagonal is selected, see diagram. To avoid conflict between movement and firing the ship movement control will not respond for a very short time after firing. This reduces the chance of firing at a target and rapidly chasing after the bullet fired.

See separate reference card for pictures.

To leave the weapon station, as with leaving any station, press and hold fire, then point the joystick in the direction of the exit corridor, either up or down. To avoid accelerating the ship when leaving, always press the button before pointing the joystick.

The Remote Drone

ID codes: RD and DL.

Being manoeuvrable in its own right, the escort drone's station is the only one from which the main ship cannot be steered. The joystick instead controls the drone's movement. The drone on the landing pad is automatically launched as you leave the station. It will then hover above the pad. It may be steered using the joystick and has an operating range of about four screen widths in any direction. Naturally it is impossible to fly the drone blind beyond visible range, but due to its large turning circle at high speed it is often necessary to temporarily lose sight of it. The drone locator (ID code DL) is a useful tool for judging the drone's distance from the ship. Should the drone

stray beyond its operating range, contact will be permanently lost. In this case the landing pad remains empty and the main ship may be scanned from this station.

The remote drone may carry any weapon unit from the simple four-way guns to the simultaneous eight-way weapons. Control of these weapons is exactly as if they were mounted in their own station. The remote drone is fitted with the weapon immediately following its own entry in the weapon catalogue. Each remote drone is controlled from its own landing pad and must be landed only on this pad. Position the drone over the pad so that the glowing blue indicator can be seen through the hole in the centre of the drone. Press and hold the fire button until you hear the hiss of the drone's landing thrusters, about half a second. Then move the joystick in the direction of the exit corridor. This is exactly the same procedure as for leaving any other station.

It is also possible to land the remote but remain in control of its weaponry. This is a hybrid control mode in that it behaves as a normal weapon except that steering the ship (or the drone) is not possible. This has the advantage that if the ship is stationary to start with, it will never drift, it becomes a solid platform. To enter this mode, land the drone as above but keep the joystick centred, then release the button when you hear the drone settle on the pad. To leave this mode, just exit the station by again holding down the fire button and pointing the joystick in the direction of the exit corridor.

You may also leave the landing pad station while the remote drone is still in flight. Use the usual method to leave while the drone is not above the pad. It will glide to a halt relative to the ship, although the ship and drone may well be moving. Re-entering the landing pad will resume control of the drone. Note that steering the ship while a drone is active may cause it to stray outside its sphere of operation and become lost.

It is not possible to have two remote drones active at one time. Entering a second drone's station while the first is still active will allow control of the main ship as if it is a normal station. However, should the first drone become lost, the second will immediately tilt off and steering of the ship will switch to controlling the remote instead.

Non-directable-fire Weapons Stations

ID codes: NF, NK, NF and NS

These more advanced weapon units do not require to be given a direction to fire in as they will fire in all possible directions, either sequentially or simultaneously. The ship may be steered in any direction by accelerating the ship in the direction of the joystick. Job the fire button to fire the weapon, do not hold the button down. The weapon will either fire immediately in all its possible directions or release a series of bolts, clockwise or anti-clockwise, until each gun port has fired once. Joystick direction has no effect on the guns. To leave the weapon station, as with leaving any station, press and

hold fire, then point the joystick in the direction of the exit corridor, either up or down. To avoid accelerating the ship when leaving, always press the button before pointing the joystick.

Disruptor Station

ID code: DS

The disruptor is a slow build-up, mass dematerialization weapon. It will affect any Morphed in visible range. Since it takes a while to accumulate sufficient energy to fire, and because this may be a huge quantity of energy, it is possible to abort fire during the build up with no loss of energy. The ship may be steered in any direction by accelerating the ship in the direction of the joystick. To build up and fire the disruptor it is necessary to press and hold fire with the joystick centred for the entire duration of the build up until it either fires or aborts due to insufficient energy. To abort firing manually, either release fire or move the joystick in any direction. To leave the weapon station, as with leaving any station, press and hold fire, then point the joystick in the direction of the exit corridor, either up or down. To avoid accelerating the ship when leaving, always press the button before pointing the joystick.

Weapons Reference Guide

The different weapons available are listed in the following section:

Four-way Directable

ID Code: FW

First catalogue entry: 1

Initial cost: 3500 G

Classification: Fixed weapon

The first weapons built were of the four-way only firing type. Although relatively fast to build and deliver, these units began with very slow reload times and were fairly inefficient due to their four-direction limitations. The last FW weapon is catalogue entry FW234. Development by this time had reached the stage of very fast reload times and they could be built very quickly as the manufacturers were only too glad to clear stocks of parts before the takeover of the eight-way weapons was complete.

Eight-way Directable

ID Code: EW

First catalogue entry: 7

Initial cost: 3500 G

Classification: Fixed weapon

Eight-way weapons were the logical extension of their slower four-way predecessors. Early units were hindered by slow reload times but eight-way units remained in production until development was cancelled and the catalogue closed after times of study.

Four-way Rapid Fire

I.D. Code: RF
 First catalogue entry: 9
 Initial cost: 4000 G
 Classification: Fixed weapon

To extend the life of the four-way weapons by a few times, a simple sequencer was built into them, along with extra cooling systems to allow all four gun ports to fire in quick succession. Having fired all four gun ports the reload time is naturally slow in comparison to single shot weapons.

Eight-way Rapid Fire

I.D. Code: RS
 First catalogue entry: 23
 Initial cost: 30000 G
 Classification: Fixed weapon

The eight-way rapid fire series of weapons began with similar problems to the RF series with apparently slow reload times as all eight gun ports required cooling and recharging before another sequence of fire was possible.

**Extended Angle Fire,
Discreetable**

I.D. Code: RF
 First catalogue entry: 30
 Initial cost: 3000 G
 Classification: Fixed weapon

A breakthrough in cooling system technology allowed the simultaneous firing of three out of eight gun ports. Priority is given to the primary selected direction of fire with the ports to either side also being triggered. This provides very good coverage of fire, especially at close range. Further development eventually led to the simultaneous eight-way weapons.

Simultaneous Four-way

I.D. Code: SF
 First catalogue entry: 17
 Initial cost: 30000 G
 Classification: Fixed weapon

The simultaneous four-way weapons had a very brief history, only two catalogue entries existed, SF17 and SF25. They were both prohibitively expensive for a limited direction weapon and although SF25 was a considerably better weapon, both suffered from lengthy reload times.

Simultaneous Flight-way

ID Code: 5B

First catalogue entry: 45

Initial cost: 20000 G

Classification: Fixed weapon

The ultimate in fixed weapon design, this was the logical conclusion to the development of the HK series. Reload times had been reduced considerably by the time 5B-5B was designed and although slower than conventional EW weapons of the time, they were considered fast enough. The all-round coverage that they provided far outweighed any arguments against them.

Remote Drones

ID Code: 18d

First catalogue entry: 5

Initial cost: 10000 G

Classification: Mobile Weapon Platform

The development of the remote drone was begun as the need for a mobile weapons system was realized. This stemmed from the limitation of the coverage of a fixed weapon and the relative immobility of a large ship. The drone is little more than a remote-controlled shell built around a standard weapon unit. The weapon actually fitted is the catalogue entry following the entry for the drone, e.g. drone 18d24 is fitted with weapon 5B25. The cost of the weapon is included in the price of the drone. The drone has a limited operating range from the ship but it does still function outside this range if it stays beyond this limit. It is lost. Control is administered from the landing pad that the remote was launched from. To recover it, the drone must be landed on its own pad although it may be left in flight while other operations are carried out. Note that this is best done while the main ship is stationary as otherwise the drone will continue to drift at its launched speed once released. This is due to nothing more complex than the laws of momentum. Due to control signal interference, only one remote drone may be in operation at once, although more than one may be carried on the ship.

See system reference card for pictures

Disruptor

ID Code: 1B

First catalogue entry: 11

Initial cost: 25000 G

Classification: Global Effect Weapon

The disruptor will affect all projection and Morphai within the local area of the ship. Depending upon their immunity to it, they may only react against it rather than being destroyed. The disruptor requires a very large quantity of energy from the main banks to fire and should not be used if energy is running low. The sequence of firing is as

Features

- 1) a request to build up and fire is received.
- 2) the energy necessary for firing is slowly allocated from the main banks.
- 3) the request to build up must be continuous until all the energy required to fire has been allocated, which may take a couple of seconds.
- 4) upon successful build-up, the energy is used for a short burst of global disruption.
- 5) the weapon may then take three or four seconds to recycle before build-up can begin again.

If the request to fire is canceled at any time during build-up, or if insufficient energy available, all allocated energy is freed and returned to the main banks immediately.

Pre-game Controls

During the titles sequence it is possible to moderate the forthcoming game and the music volume using the function keys as follows:

- F1 - One player, one joystick, either port. A joystick symbol appears next to the 'Player 1' legend.
- F2 - Two players, sharing one joystick, either port. A joystick symbol appears next to the 'Player 2' legend.
- F3 - Two players, two joysticks, player one in port one. Joystick symbols appear next to both 'Player X' legends.
- F5 - Music volume louder.
- F6 - Music volume quieter.
- F7 - Zeroise inter-game funds.
- F8 - Restore inter-game funds.

Press and hold down **RUN/STOP** and then tap the **RESTORE** key - Return to BASIC. This allows you to reset the machine without switching off or using a reset button. Note that the **RUN/STOP** and **RESTORE** keys, when pressed together, will still reset the machine during the game. Be careful not to press them by accident - there is no going back!

Press fire on either joystick to play. The game shuffles the Morphai inhabitants for the first eight levels on each game, thus you may meet any one of eight different adversaries on level one.

During Game Controls

All game functions can be carried out from the joystick. In addition the game may be paused by pressing **RUN/STOP** on its own. To resume the game, press **RUN/STOP** again or press fire. To quit the game and return to the titles screen, press 'Y' while paused. Also when you are paused, you can press and hold down **RUN/STOP** and then tap the **RESTORE** key to reset the machine to BASIC.

High Score Entries

Morphaeus has two high score tables: a Today's Top Ten and an All-time Top Ten. In the tape edition of Morphaeus (these tables will always be the same since the All-time table is not saved) Should you attain a high score, Morphaeus will skip through the entries that you have overtaken and allow you to enter three initials. Change the letters to those required using the joystick, then press fire to select them. Morphaeus remembers the

initials for both players in a two-player game, and the disk edition will preserve them along with the All-time Top Ten. If this table is altered and saved to disk, Players may input their initials for the Today's Top Ten, and the entered initials are copied for entry into the All-time table. It is impossible to have entered the All-time Table without also having entered the Today's Top Ten with the same score.

Inter-Game Funds

For greater between-game continuity, any funds will suspend upon the ship's demise are preserved and available at the start of the next game. This value is displayed between the scores during the title sequence. There is a maximum value that can be carried across however, so any funds above this ceiling will be lost. It is not always desirable to start with funds, for example, if two players wish to start from the same financial state to see how far they can get. Thus there is a facility to override this value if desired. See 'Pre-game' Controls.

Two Player Strategy

When two players are playing, they take alternate visits to the combat area and share the same funds. The current player has the joystick symbol next to their Player X legend. Either player may operate the ship upgrade system, for both in two joystick model, as indicated by a joystick symbol next to both legends. Players should combine their efforts to defeat Morpheus.

Game Variants

Although Morpheus loads into a C128 in C64 mode, it can take some advantage of its surroundings. On a C128, Morpheus is able to generate 15% more Morphai at no extra cost! The PAL (European) tape edition of Morpheus is unable to operate properly on an NTSC (USA) C64 as its demands on the CPU are too high, but will operate in a slightly cut-down form on an NTSC C128. The disk edition of Morpheus will operate on either NTSC or PAL machines, configuring itself for optimum operation on the host machine.

Author's Hints and Tips

The ship's energy is the key to survival. Try to ensure that you always have at least one energy regenerating device on board and another one in the order book at all times.

When attempting to locate an orbital, just stop nearby and wait until it releases a beacon, you should hear it and then see it, giving you a pointer to the exact location of the orbital.

Early Morphus storms may attempt to escape rather than fight, you should give chase rather than let them run away. Points are valuable as they are converted into funds, and it takes a lot of Morphid to pay for an Inertia Converter.

Always attempt to get back to the nucleus as the last orbital collapses, a lot of points can be gained by destroying the Bonus Morphid. Beware of running Morphus still. It is essential to have an awareness of what is just off screen around you. Morphid can follow you from off screen and then take you by surprise as you stop at the next orbital. Just because you can't currently see them doesn't mean to say that they aren't still there.

A battery unit takes a relatively short time to build and is thus a quick supply of small quantities of energy for emergency use.

Using at least one shield generator is the only way of protecting the onboard systems effectively. On larger builds try to always have weapons fitted, even if they are obsolete, they will cushion you against bullets and maybe prevent unnecessary system destruction.

The rear system slots are safest. Since new systems are assigned to the rearmost slots first, your most valuable systems should be installed first.

Fit a nucleus Under (NU) device if you're having difficulty leaving the nucleus after it shuts down. Get used to not straying too far from it and noting its approximate direction as you destroy the orbital.

Upgrade to a larger ship fairly quickly, the bigger the hull, the more efficient it is. If you're in real dire straits with low energy and no-energy systems in the order book ready, new hulls are supplied with full energy banks, and are immediately available. Despite this it is a very costly.

All the ships are very fast for covering large distances, but it is not advisable to use all

the speed all the time, especially when not flying forwards. The Morphai who will try desperately to get out of your way, really are not fast enough to clear your path. While appreciating that you still get full points for killing them with this method, it does little for your overall shield or energy status.

If you are using additional weapons a lot, keep them up to date. Nothing annoys a Morphai more than shooting at it with a pea-shooter, which is what older weapons become to them as they develop immunity. They also begin to build up a resistance to the plasma beams in time, so you will need extra weapons.

Flying a remote drone tends to confuse the Morphai a little, they are slightly unsure of what to attack first, so get out there and *zap!* them with them.

The Morphai do get more vicious the longer you take to clear a level, so be quick!

Morpheus - the credits:

Produced by Grafigold Ltd

Published by Rainbird Software, Telegamesoft.

Designed and Programmed by Andrew Graybrook, December 1986 to December 1987.

Music composed by Steve Turner Sound effects created and programmed by Steve Turner

Graphics by Andrew Graybrook.

Maelius and Keres graphics by John Cumming.

Morpheus was created using the AMWADS cross-Assembler by Arccel running on a 1 Megabyte Open PC-BI downloading to a C128. Program editing was done with the BC Editor by C Source Inc.

Graphics created in Ultrafont+ and Sprite Magic (both customised) and Deluxe Paint on the Amiga.

Debugging by MCWHA and AMWAD.

Disk loader by Graeme Ashton.

Tape loader by AB.

Thanks to Paul Hughes for protection, advice and the loan of the Keypad.

Thanks also to Gary Penn and Gary Liddon for inspiration, ideas, encouragement and the loan of the monitor.

A final thanks to all at Telegamesoft for their help and support, without whom this game would not be complete, especially Paul, Dyrce, Steve Perry, Paul Hubbard and Paul Morleyland.

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RAINBIRD SOFTWARE

74 NEW OXFORD ST. LONDON WC1A 1PS. ENGLAND

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